

# Un t i t l e d

Title: US- 10- 527- 411A- 66  
 Perfect score: 4545  
 Sequence: 1 MEFVNKQFNYKDPVNGVDI A. . . . . SKYVDNQRLNSTEEEEEEEE 876

## RESULT 3

US- 11- 077- 550- 66

; Sequence 66, Application US/ 11077550  
 ; Publication No. US20050244435A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Shone, Clifford Charles  
 ; APPLICANT: Quinn, Conrad Padraig  
 ; APPLICANT: Foster, Keith Alan  
 ; APPLICANT: Chaddock, John  
 ; APPLICANT: Marks, Philip  
 ; APPLICANT: Sutton, J. Mark  
 ; APPLICANT: Stancombe, Patrick  
 ; APPLICANT: Wayne, Jonathan  
 ; TITLE OF INVENTION: Recombinant Toxin Fragments  
 ; FILE REFERENCE: 1581.0130004  
 ; CURRENT APPLICATION NUMBER: US/ 11/ 077, 550  
 ; CURRENT FILING DATE: 2005- 03- 11  
 ; PRIOR APPLICATION NUMBER: 10/ 241, 596  
 ; PRIOR FILING DATE: 2002- 09- 12  
 ; PRIOR APPLICATION NUMBER: 09/ 255, 829  
 ; PRIOR FILING DATE: 1999- 02- 23  
 ; PRIOR APPLICATION NUMBER: PCT/ GB97/ 02273  
 ; PRIOR FILING DATE: 1997- 08- 22  
 ; PRIOR APPLICATION NUMBER: 08/ 782, 893  
 ; PRIOR FILING DATE: 1996- 12- 27  
 ; PRIOR APPLICATION NUMBER: GB9625996. 5  
 ; PRIOR FILING DATE: 1996- 12- 13  
 ; PRIOR APPLICATION NUMBER: GB9617671. 4  
 ; PRIOR FILING DATE: 1996- 08- 23  
 ; NUMBER OF SEQ ID NOS: 179  
 ; SOFTWARE: Patent In version 3. 1  
 ; SEQ ID NO 66  
 ; LENGTH: 876  
 ; TYPE: PR1  
 ; ORGANISM: Clostridium botulinum  
 US- 11- 077- 550- 66

Query Match 100. 0% Score 4545; DB 6; Length 876;  
 Best Local Similarity 100. 0% Pred. No. 6. 7e- 289;  
 Matches 876; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

|    |     |   |                      |                       |                 |     |
|----|-----|---|----------------------|-----------------------|-----------------|-----|
| Qy | 1   | MEFVNKQFNYKDPVNGVDI                             | AYI KI PNAGQMPVKAFKI | HNKI WVI              | PERDTFTNPEEGDLN | 60  |
| Db | 1   | MEFVNKQFNYKDPVNGVDI                             | AYI KI PNAGQMPVKAFKI | HNKI WVI              | PERDTFTNPEEGDLN | 60  |
| Qy | 61  | PPPEAKQMPVSYDYDSTYLSTDNEKDNYLKGVTKLFERI         | YSTDLGFM             | LLTSI VRGI            | PFWGG           | 120 |
| Db | 61  | PPPEAKQMPVSYDYDSTYLSTDNEKDNYLKGVTKLFERI         | YSTDLGFM             | LLTSI VRGI            | PFWGG           | 120 |
| Qy | 121 | STI DTELKVI DTNCI NVI QPDGSYRSEELNLVI           | I GPSADI             | I QFECKSFGHEVLNLTRNGY |                 | 180 |
| Db | 121 | STI DTELKVI DTNCI NVI QPDGSYRSEELNLVI           | I GPSADI             | I QFECKSFGHEVLNLTRNGY |                 | 180 |
| Qy | 181 | GSTQYI RFSPDFTFGFEESLEVDTNPLLGAGKFATDPAVTLAHELI | HAGHRLYGI            | AI NPN                |                 | 240 |

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|    |     |   |     |
|----|-----|---|-----|
| Db | 181 | GSTQYI RFSPDFTFGFEESLEVDTNPLLGAGKFATDPAVTLAHELI HAGHRL YGI AI NPN     | 240 |
| Qy | 241 | RVFKVNTNAYYEMSGLEVSFEELRTFGGHDAKFI DSLQENEFRLYYYNKF KDI ASTLNKA       | 300 |
| Db | 241 | RVFKVNTNAYYEMSGLEVSFEELRTFGGHDAKFI DSLQENEFRLYYYNKF KDI ASTLNKA       | 300 |
| Qy | 301 | KSI VGTTASLQYMKNVFKEKYLLSEDTSGKFSVDKLKFDKLYKMLTEI YTEDNFVKFFKV        | 360 |
| Db | 301 | KSI VGTTASLQYMKNVFKEKYLLSEDTSGKFSVDKLKFDKLYKMLTEI YTEDNFVKFFKV        | 360 |
| Qy | 361 | LNRKTYLNFDKAVFKI NI VPKVNYTI YDGFNL RNTNLAANFNGQNTI NNMNFTKLKNFT      | 420 |
| Db | 361 | LNRKTYLNFDKAVFKI NI VPKVNYTI YDGFNL RNTNLAANFNGQNTI NNMNFTKLKNFT      | 420 |
| Qy | 421 | GLFEFYKLLCVRGI I TSKTKSLDDDDKGYNKALNDLCI KVNNDLFFSPSEDNFTNDLNK        | 480 |
| Db | 421 | GLFEFYKLLCVRGI I TSKTKSLDDDDKGYNKALNDLCI KVNNDLFFSPSEDNFTNDLNK        | 480 |
| Qy | 481 | GEEI TSDTNI EAAEENI SLDLI QQYYLTFNFDNEPENI SI ENLSSDI I GQLELMPNI ERF | 540 |
| Db | 481 | GEEI TSDTNI EAAEENI SLDLI QQYYLTFNFDNEPENI SI ENLSSDI I GQLELMPNI ERF | 540 |
| Qy | 541 | PNGKKYELDKYTMFHYLRAQEFEHGKSRI ALTNSVNEALLNPSRVYTFSSDYVKKVNKA          | 600 |
| Db | 541 | PNGKKYELDKYTMFHYLRAQEFEHGKSRI ALTNSVNEALLNPSRVYTFSSDYVKKVNKA          | 600 |
| Qy | 601 | TEAAMFLGWWEQLVYDFTDETSEVSTTDKI ADI TI I I PYI GPALNI GNMLYKDDFVGALI   | 660 |
| Db | 601 | TEAAMFLGWWEQLVYDFTDETSEVSTTDKI ADI TI I I PYI GPALNI GNMLYKDDFVGALI   | 660 |
| Qy | 661 | FSGAVI LLEFI PEI AI PVLGTFALVSYI ANKVLTVQTI DNALSKRNEKWDEVYKYI VTNW   | 720 |
| Db | 661 | FSGAVI LLEFI PEI AI PVLGTFALVSYI ANKVLTVQTI DNALSKRNEKWDEVYKYI VTNW   | 720 |
| Qy | 721 | LAKVNTQI DLI RKKMKEALENQAATKAI I NYQYNQYTEEEKNNI NFNI DDLSSKLNESI     | 780 |
| Db | 721 | LAKVNTQI DLI RKKMKEALENQAATKAI I NYQYNQYTEEEKNNI NFNI DDLSSKLNESI     | 780 |
| Qy | 781 | NKAM NI NKFLNQCSVSYLMNSM PYGVKRL EDFDASLKDALLKYI YDNRGTLI GQVDRL      | 840 |
| Db | 781 | NKAM NI NKFLNQCSVSYLMNSM PYGVKRL EDFDASLKDALLKYI YDNRGTLI GQVDRL      | 840 |
| Qy | 841 | KDKVNNTLSTDI PFQLSKYVDNQRLNSTEEEEEEEE                                 | 876 |
| Db | 841 | KDKVNNTLSTDI PFQLSKYVDNQRLNSTEEEEEEEE                                 | 876 |

RESULT 5

US- 11- 644- 010- 66

; Sequence 66, Application US/ 11644010

; Publication No. US20070248626A1

; GENERAL INFORMATION:

; APPLICANT: Shone, Clifford Charles

; APPLICANT: Quinn, Conrad Padraig

; APPLICANT: Foster, Keith Alan

; APPLICANT: Chaddock, John

; APPLICANT: Marks, Philip

; APPLICANT: Sutton, J. Mark

; APPLICANT: Stancombe, Patrick

; APPLICANT: Wayne, Jonathan

; TITLE OF INVENTION: Recombinant Toxin Fragments

; FILE REFERENCE: 1581. 0130006/ TJS/ JJY

; CURRENT APPLICATION NUMBER: US/ 11/ 644, 010

; CURRENT FILING DATE: 2006- 12- 22

# Untitled

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PRI OR APPLI CATI ON NUMBER: US 10/ 241, 596
PRI OR FI LI NG DATE: 2002- 09- 12
PRI OR APPLI CATI ON NUMBER: US 09/ 255, 829
PRI OR FI LI NG DATE: 1999- 02- 23
PRI OR APPLI CATI ON NUMBER: PCT/ GB97/ 02273
PRI OR FI LI NG DATE: 1997- 08- 22
PRI OR APPLI CATI ON NUMBER: US 08/ 782, 893
PRI OR FI LI NG DATE: 1996- 12- 27
PRI OR APPLI CATI ON NUMBER: GB 9617671. 4
PRI OR FI LI NG DATE: 1996- 08- 23
NUMBER OF SEQ I D NOS: 175
SOFTWARE: Patent In versi on 3. 1
SEQ I D NO 66
LENGTH: 876
TYPE: PRT
ORGANI SM: Cl ostr i di um bot ul i num
US- 11- 644- 010- 66

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Query Match          100. 0%   Score 4545;   DB 6;   Length 876;
Best Local Similarity 100. 0%   Pred. No. 6. 7e- 289;
Matches 876;   Conservative 0;   M smatches 0;   Indel s 0;   Gaps 0;

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Qy      1 MEFVNKQFNYKDPVNGVDI AYI KI PNAGQMQPVKAFKI HNKI WVI PERDTFTNPEEGDLN 60
Db      1 MEFVNKQFNYKDPVNGVDI AYI KI PNAGQMQPVKAFKI HNKI WVI PERDTFTNPEEGDLN 60

Qy     61 PPPEAKQVPVSYDYDSTYLSTDNEKDNYLKGVTKLFERI YSTDLGFMLLTSI VRGI PFWGG 120
Db     61 PPPEAKQVPVSYDYDSTYLSTDNEKDNYLKGVTKLFERI YSTDLGFMLLTSI VRGI PFWGG 120

Qy    121 STI DTELKVI DTNCI NVI QPDGSYRSEELNLVI I GPSADI I QFECKSFGHEVLNLTRNGY 180
Db    121 STI DTELKVI DTNCI NVI QPDGSYRSEELNLVI I GPSADI I QFECKSFGHEVLNLTRNGY 180

Qy    181 GSTQYI RFSPDFTFGFEESLEVDTNPLL GAGKFATDPAVTLAHELI HAGHRLYGI AI NPN 240
Db    181 GSTQYI RFSPDFTFGFEESLEVDTNPLL GAGKFATDPAVTLAHELI HAGHRLYGI AI NPN 240

Qy    241 RVFKVNTNAYYEMSGLEVSFEELRTFGGHDAKFI DSLQENEFRLYYYNKF KDI ASTLNKA 300
Db    241 RVFKVNTNAYYEMSGLEVSFEELRTFGGHDAKFI DSLQENEFRLYYYNKF KDI ASTLNKA 300

Qy    301 KSI VGTTASLQYMKNVFKEKYLL SEDTSGKFSVDKL KFDKLYKMLTEI YTEDNFVKFFKV 360
Db    301 KSI VGTTASLQYMKNVFKEKYLL SEDTSGKFSVDKL KFDKLYKMLTEI YTEDNFVKFFKV 360

Qy    361 LNRKTYLNFDKAVFKI NI VPKVNYTI YDGFNL RNTNLAANFNGQNTI NNMNFTKLKNFT 420
Db    361 LNRKTYLNFDKAVFKI NI VPKVNYTI YDGFNL RNTNLAANFNGQNTI NNMNFTKLKNFT 420

Qy    421 GLFEFYKLLCVRGI I TSKTKSLDDDDKGYNKALNDLCI KVNNDLFFSPSEDNFTNDLNK 480
Db    421 GLFEFYKLLCVRGI I TSKTKSLDDDDKGYNKALNDLCI KVNNDLFFSPSEDNFTNDLNK 480

Qy    481 GEEI TSDTNI EAAEENI SLDLI QQYYLTFNFDNEPENI SI ENLSSDI I GQLELMPNI ERF 540
Db    481 GEEI TSDTNI EAAEENI SLDLI QQYYLTFNFDNEPENI SI ENLSSDI I GQLELMPNI ERF 540

Qy    541 PNGKKYELDKYTMFHYLRAQEFEHGKSRI ALTNSVNEALLNPSRVYTFSSDYVKKNKA 600
Db    541 PNGKKYELDKYTMFHYLRAQEFEHGKSRI ALTNSVNEALLNPSRVYTFSSDYVKKNKA 600

Qy    601 TEAAMFLGWWEQLVYDFTDETSEVSTTDKI ADI TI I I PYI GPALNI GNMLYKDDFVGALI 660

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# Untitled

|    |     |   |     |
|----|-----|---|-----|
| Db | 601 | TEAAMFLGWEQLVYDFTDETSEVSTTDKIADI T I I I PYI GPALNI GNMLYKDDFVGALI  | 660 |
| Qy | 661 | FSGAVI LLEFI PEI AI PVLGTFALVSYI ANKVLTVQTI DNALSKRNEKWDEVYKYI VTNW | 720 |
| Db | 661 | FSGAVI LLEFI PEI AI PVLGTFALVSYI ANKVLTVQTI DNALSKRNEKWDEVYKYI VTNW | 720 |
| Qy | 721 | LAKVNTQI DLI RKKMKEALENQAEATKAI I NYQYNQYTEEEKNNI NFNI DDLSSKLNESI  | 780 |
| Db | 721 | LAKVNTQI DLI RKKMKEALENQAEATKAI I NYQYNQYTEEEKNNI NFNI DDLSSKLNESI  | 780 |
| Qy | 781 | NKAM NI NKFLNQCSVSYLMNSM PYGVKRL EDFDASLKDALLKYI YDNRGTLI GQVDRL    | 840 |
| Db | 781 | NKAM NI NKFLNQCSVSYLMNSM PYGVKRL EDFDASLKDALLKYI YDNRGTLI GQVDRL    | 840 |
| Qy | 841 | KDKVNNTLSTDI PFQLSKYVDNQRLNSTEEEEEEEE                               | 876 |
| Db | 841 | KDKVNNTLSTDI PFQLSKYVDNQRLNSTEEEEEEEE                               | 876 |